

Resource Summary Report

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Chilibot: Gene and Protein relationships from MEDLINE

RRID:SCR_001705

Type: Tool

Proper Citation

Chilibot: Gene and Protein relationships from MEDLINE (RRID:SCR_001705)

Resource Information

URL: <http://www.chilibot.net/>

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Description: Data analysis service that searches PubMed literature database (abstracts) about specific relationships between proteins, genes, or keywords using a NLP-based text-mining approach. The results are returned as a graph. The synonym database used in Chilibot is available, without fee, for academic use only. Several different search methods are supported including: * searching for relationship between two genes, proteins or keywords * searching for relationships between many genes, proteins, or keywords * searching for relationships between two lists of genes, proteins, or keywords Advanced options include: * Automated hypothesis generation (graph) * Restricting context using keywords * Providing your own synonyms * Modifying synonyms provided by Chilibot * Color coding nodes with gene expression values * Special search: modulation

Abbreviations: Chilibot

Synonyms: Chilibot - Mining PubMed for relationships

Resource Type: data or information resource, database, data analysis service, production service resource, service resource, analysis service resource

Defining Citation: [PMID:15473905](#)

Keywords: drug, gene, literature, natural language processing, protein, text-mining, network, keyword, biological concept, graph, bio.tools

Funding: PHS DA-03977

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: Chilibot: Gene and Protein relationships from MEDLINE

Resource ID: SCR_001705

Alternate IDs: nif-0000-10196, OMICS_01176, biotools:chilibot

Alternate URLs: <https://bio.tools/chilibot>

Record Creation Time: 20220129T080209+0000

Record Last Update: 20260806T054326+0000

Ratings and Alerts

No rating or validation information has been found for Chilibot: Gene and Protein relationships from MEDLINE.

No alerts have been found for Chilibot: Gene and Protein relationships from MEDLINE.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 30 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#).

Cheng J, et al. (2024) Myeloid cells coordinately induce glioma cell-intrinsic and cell-extrinsic pathways for chemoresistance via GP130 signaling. *Cell reports. Medicine*, 5(8), 101658.

Yang R, et al. (2022) Downregulation of Nck1 After Spinal Cord Injury in Adult Rats. *Balkan medical journal*, 39(1), 39.

Jia Y, et al. (2022) Genetic dissection of glutathione S-transferase omega-1: identification of novel downstream targets and Alzheimer's disease pathways. *Neural regeneration research*, 17(11), 2452.

Cierco Jimenez R, et al. (2022) Machine learning computational tools to assist the performance of systematic reviews: A mapping review. *BMC medical research methodology*, 22(1), 322.

Wang Y, et al. (2019) ANXA3 Silencing Ameliorates Intracranial Aneurysm via Inhibition of the JNK Signaling Pathway. *Molecular therapy. Nucleic acids*, 17, 540.

Purdie AC, et al. (2019) Gene expression profiles during subclinical *Mycobacterium avium* subspecies *paratuberculosis* infection in sheep can predict disease outcome. *Scientific reports*, 9(1), 8245.

- D'Arcangelo D, et al. (2019) Ion Channel Expression in Human Melanoma Samples: In Silico Identification and Experimental Validation of Molecular Targets. *Cancers*, 11(4).
- Radhakrishna U, et al. (2019) Placental epigenetics for evaluation of fetal congenital heart defects: Ventricular Septal Defect (VSD). *PloS one*, 14(3), e0200229.
- Lu Y, et al. (2019) Investigating a downstream gene of Gpnmb using the systems genetics method. *Molecular vision*, 25, 222.
- Li Y, et al. (2019) RNA sequencing screening of differentially expressed genes after spinal cord injury. *Neural regeneration research*, 14(9), 1583.
- D'Arcangelo D, et al. (2018) WIPI1, BAG1, and PEX3 Autophagy-Related Genes Are Relevant Melanoma Markers. *Oxidative medicine and cellular longevity*, 2018, 1471682.
- Lu Y, et al. (2018) The genetic dissection of Myo7a gene expression in the retinas of BXD mice. *Molecular vision*, 24, 115.
- Mulligan MK, et al. (2018) Genetic Contribution to Initial and Progressive Alcohol Intake Among Recombinant Inbred Strains of Mice. *Frontiers in genetics*, 9, 370.
- Radhakrishna U, et al. (2018) Newborn blood DNA epigenetic variations and signaling pathway genes associated with Tetralogy of Fallot (TOF). *PloS one*, 13(9), e0203893.
- Xu J, et al. (2016) Genetic regulation analysis reveals involvement of tumor necrosis factor and alpha-induced protein 3 in stress response in mice. *Gene*, 576(1 Pt 3), 528.
- Radhakrishna U, et al. (2016) Genome-Wide DNA Methylation Analysis and Epigenetic Variations Associated with Congenital Aortic Valve Stenosis (AVS). *PloS one*, 11(5), e0154010.
- Lu L, et al. (2016) The Genetic Architecture of Murine Glutathione Transferases. *PloS one*, 11(2), e0148230.
- Duan C, et al. (2016) Genetic expression analysis of E2F-associated phosphoprotein in stress responses in the mouse. *Gene*, 581(2), 130.
- Russo LM, et al. (2015) Mapping of genetic loci that modulate differential colonization by *Escherichia coli* O157:H7 TUV86-2 in advanced recombinant inbred BXD mice. *BMC genomics*, 16, 947.
- Frick A, et al. (2015) Identifying genes that mediate anthracycline toxicity in immune cells. *Frontiers in pharmacology*, 6, 62.